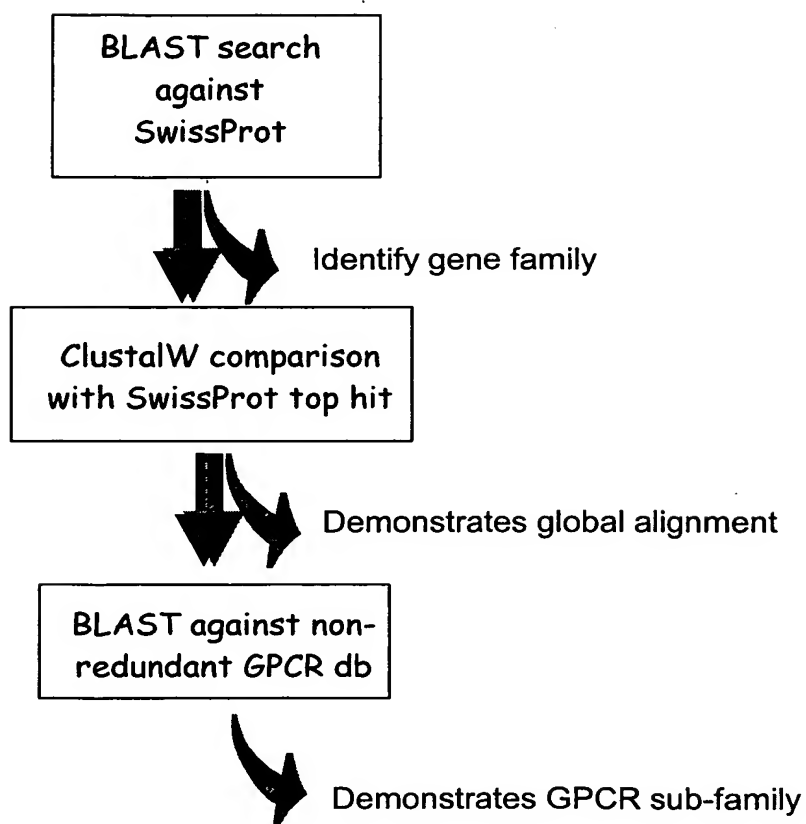


Figure 1



### ClustalW Alignment of PFI-019 with P2Y purinoceptor 1 (P2Y1)

5

PFI-019 MNEPLDYLA-NASDFPDYA---AAFGN-----CTDENIPLKMHYLPVIYGI  
P2Y1 MTEVLWPAVPNGTDA AFLAGPGSSWGNSTVASTAAVSSSFKCALTKTGFFQFYLPVYIL  
\*.\* \* .\*.\* \* :\*:\*\* \*: : :\*:\*\*\*.\* :

10

PFI-019 IFLVGFPGNAVVISITYIFKMRPWKSSTIIMLN LACTDLLYLTSLPFLIHYYASGENWIFG  
P2Y1 VFIIGFLGNSVAIWMFVFHMKPWSGISVYMFNLALADFLYVLTLPALIFYFYFNKTDWIFG  
:\*:\*\* \*\*:\*.\* :\*:\*:\*\*.. : :\*:\*\*\* :\*:\*\*\* :\*\* \*\*.\*. :\*\*\*\*

15

PFI-019 DFMCKFIRFSFHFNL YSSILFLTCSIFRYCVIIHPMSCFSIHKTRCAVVACAVVWIISL  
P2Y1 DAMCKLQRFIFHVNLYG SILFLTCSIAHRYSGVVYPLKSLGRLKKKNAICISVLVWLIVV  
\* \*\*\*: \*\* \*\*.\*\*\*\*.\*\*\*\*\*:\* \*\*. :\*:\*:.. \*.: \*: ..\*\*:\* :

20

PFI-019 VAVIPMTFLITSTNR TNRS-ACLDLTSSDELNTIKWYNLILTATTFCLPLVIVTLCYTTI  
P2Y1 VAISPILFYSGTGVRKNKTITCYD TTSDEYLRSYFIYSMCTTVAMFCVPLVLILGCYGLI  
\*\*: \*: \* : \*.\*: : \* \* \*\*.: \*: \*.: \*: \*\*:\*\*\*: \*\* \*

25

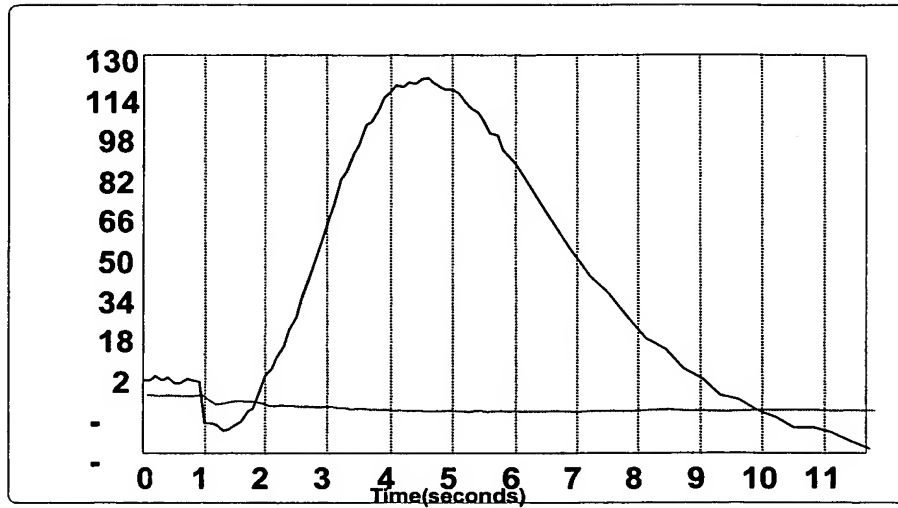
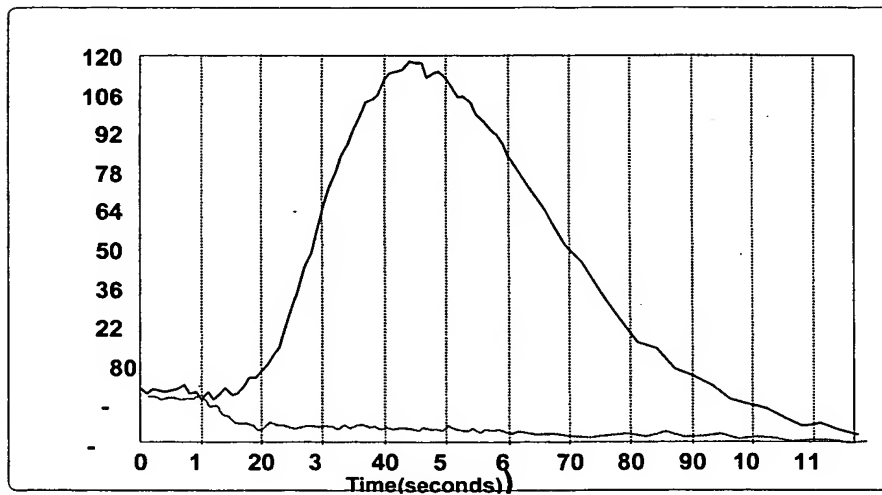
PFI-019 IHTLTHGLQTDSCLKQKARRLTILLLLAFYVCFLPFHILRVIRIESRLLSIS--CSIEN  
P2Y1 VRALIYKDLDNSPLRRKSIYLVII VLTVFVAVSYIPFHVMTMNLRLRDLFQTPAMCAFND  
:::\* : :\* \*\*.:\* \*.\*:.\* \* \*.:\*\*\*:..:..:\*\*\* : \*:::

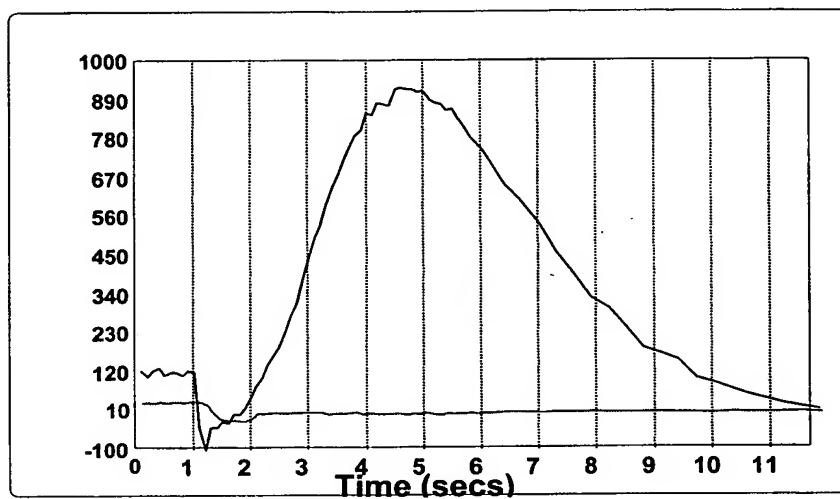
30

PFI-019 QIHEAYIVSRPLAALNTFGNLLLYVVVSDNFQQAVCSTVR--CKVSGNLEQ-AKKISYS  
P2Y1 RVYATYQVTRGLASLNSCVDPILYFLAGDTFRRRLSRATRKASRRSEANLQSKSEDMTLN  
::: :\* \*\*:\* \*\*:\*\*\*: : \*\*:\*.\*.\*: : . :.\* : ..\*\*.: :::: .

30

PFI-019 NNP-----  
P2Y1 ILPEFKQNGDTSL  
\*

**Figure 3: Stimulation of PFI-019 by 2-chloro-ATP****Figure 4: Stimulation of PFI-019 by 2-methyl-thio-ATP**

**Figure 5: Stimulation of PFI-019 by 2-methyl-thio-ADP****Figure 6: Stimulation of PFI-019 by UTP**